

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/656,586	09/04/2003	Yu-Lien Huang	67,200-1133	7926
7590 10/05/2005			EXAMINER	
TUNG & ASSOCIATES			LUND, JEFFRIE ROBERT	
Suite 120 838 W. Long La	ke Road		ART UNIT	PAPER NUMBER
Bloomfield Hills, MI 48302			1763	

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/656,586	HUANG ET AL.	
	Examiner	Art Unit	
The MAILING DATE of this communication a	Jeffrie R. Lund	ith the correspondence address	
Period for Reply	ppeare on the dover ones wi	un uno don doponadnos adareses	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- od will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. Teply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 25	July 2005.		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Th	nis action is non-final.	·	
3) Since this application is in condition for allow	·	•	
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application	on.		
4a) Of the above claim(s) 9-20 is/are withdra			
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-8</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10)⊠ The drawing(s) filed on <u>04 September 2003</u> is		objected to by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeyan	ice. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ection is required if the drawing(	(s) is objected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the	Examiner. Note the attached	I Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)☐ Acknowledgment is made of a claim for foreign	an priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docume	nts have been received.		
2. Certified copies of the priority docume	nts have been received in A	pplication No	
3. Copies of the certified copies of the pr	iority documents have been	received in this National Stage	
application from the International Bure	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
* See the attached detailed Office action for a list	st of the certified copies not	received.	
Attachment(s)			
Notice of References Cited (PTO-892)	•	Summary (PTO-413)	
2)   Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)   Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0		s)/Mail Date  Informal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6)  Other:	<b></b> ·	

## Page 2

#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election of Group I, claims 1-8, in the reply filed on July 25, 2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

### Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 5-8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The term "confine ring" in claim 5 is not described in the specification to enable one skilled in the art to make and/or use the invention. The Examiner is not aware of any standard reactor part referred to as a "confine ring". The art refers to a confinement ring which confines a plasma or a type of clamp for confining (holding) a showerhead or the like. If this is what is meant the specification and claims should be amended to change the "confine ring" to a --confinement ring--. Such an amendment would not be new matter because it would be the correction of an obvious translation error.

### Specification

4. The disclosure is objected to because of the following informalities: the term "confine ring" is used throughout the specification. It is not clear what this term means. As discussed above, if "confine ring" was the intended to be a --confinement ring--, then the specification needs to be corrected.

Appropriate correction is required.

## **Drawings**

5. The drawings are objected to because the confine ring is drawn as a solid plate, not a ring in all the drawings. The drawing must be corrected to show the confine ring as a ring. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next

Application/Control Number: 10/656,586

Art Unit: 1763

Office action. The objection to the drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Lill et al, US Patent 6,228,208 B1.

Lill et al teaches an apparatus that includes: a process chamber 112 having chamber walls 102 (side wall), 114 (lid, i.e. top wall); and a showerhead 118 with a gas mix plate 120. The showerhead is held by a plurality of bolts 128 extending through the chamber wall 114 into the showerhead. The bolts include a fastener head and threaded shank. (Figure 1, column 1 line 43 through column 2 line 3)

9. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Lilleland et al, US Patent 6,073,577.

Lilleland et al teaches an apparatus that includes: a process chamber 42 having chamber wall (lid, i.e. top wall, upper most layer of figure 1 which seals channel 13 and through which the gas inlet 20, and cooling water inlets 13a pass); a showerhead 14 with a gas mix plate 22; and a confine ring 17. The showerhead is held by a plurality of

**Art Unit: 1763** 

bolts extending through the chamber wall into the showerhead. The bolts include a fastener head and threaded shank. (Figure 1, column 2 line 22 through column 3 line 14)

#### Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art teaches the technological background of the invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrie R. Lund whose telephone number is (571) 272-1437. The examiner can normally be reached on Monday-Thursday (6:30 am-6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on (571) 272-1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrie R. Lund Primary Examiner